

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTORNEY NO.  
0609.4640001/SRL/TBBAPPLICATION NO.  
09/448,867APPLICANT  
Brighurst *et al.*FILING DATE  
November 24, 1999GROUP  
~~1643~~ 1647

## U.S. PATENT DOCUMENTS

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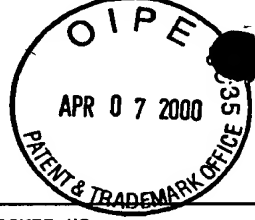
SLW	AL	8	Takasu, H. <i>et al.</i> , "Human PTH/PTHrP receptors and Type-2 PTH Receptors Show Discordant Selectivity for Human PTH Analogs with Amino-Terminal Modifications," <i>Bone</i> 23:S255, Abstract No. T223 (November 1998)
	AM	8	Takasu, H. <i>et al.</i> , "Phospholipase C Activation via the Human PTH/PTHrP Receptor Requires an Intact Amino-Terminus of the Human PTH," <i>Bone</i> 23:S447, Abstract No. F148 (November 1998)
	AN	8	Takasu, H. <i>et al.</i> , "Amino-Terminal Modifications of Human Parathyroid Hormone (PTH) Selectively Alter Phospholipase C Signaling via the Type 1 PTH Receptor: Implications for Design of Signal-Specific PTH Ligands," <i>Biochem.</i> 38:13453-13460 (October 1999)
	AO	8	Copy of International Search Report for International Application No. PCT/US99/27863, mailed March 3, 2000.
	AP		

EXAMINER

*Sandra Wiegert*

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SLW	AI1	WO 91/05050 A1	04/18/1991	WIPO	—	—	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SLW	AJ1	GB 2 269 176 A	02/02/1994	United Kingdom	—	—	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SLW	AK1	CA 2,126,299	12/21/1995	Canada	—	—	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

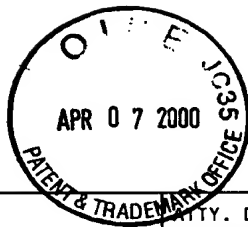
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SLW	AL	1	Abou-Samra, A.-B., et al., "Expression cloning of a common receptor for parathyroid hormone and parathyroid hormone-related peptide from rat osteoblast-like cells: A single receptor stimulates intracellular accumulation of both cAMP and inositol triphosphates and increases intracellular free calcium," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89:2732-2736 (April 1992).
	AM	1	Azarani, A., et al., "Structurally Diverse N-terminal Peptides of Parathyroid Hormone (PTH) and PTH-related Peptide (PTHrP) Inhibit the Na <sup>+</sup> /H <sup>+</sup> Exchanger NHE3 Isoform by Binding to the PTH/PTHrP Receptor Type I and Activating Distinct Signaling Pathways," <i>J. Biol. Chem.</i> 271:14931-14936 (1996)
	AN	1	Bringham, F.R., et al., "Cloned, Stably Expressed Parathyroid Hormone (PTH)/PTH-Related Peptide Receptors Activate Multiple Messenger Signals and Biological Responses in LLC-PK <sub>1</sub> Kidney Cells," <i>Endocrinol.</i> 132:2090-2098 (May 1993)
	AO	1	Chakravarthy, B.R., et al., "Parathyroid Hormone Fragment [3-34] Stimulates Protein Kinase C (PKC) Activity in Rat Osteosarcoma and Murine T-Lymphoma Cells," <i>Biochem. Biophys. Res. Comm.</i> 171:1105-1110 (September 1990)
	AP	1	Civitelli, R., et al., "PTH elevates inositol polyphosphates and diacylglycerol in a rat osteoblast-like cell line," <i>Am. J. Physiol.</i> 255:E660-E667 (November 1988)

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SLW	AI2	EP 0 748 817 A2	12/18/1996	Europe	X	X	Yes No
	AJ2	WO 98/05683	02/12/1998	WIPO	X	X	Yes No
	AK2	WO 99/18945	04/22/1999	WIPO	X	X	Yes No

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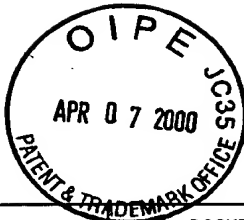
SLW	AL	2	Cole, J.A., et al., "Regulation of Sodium-Dependent Phosphate Transport by Parathyroid Hormone in Opossum Kidney Cells: Adenosine 3', 5'-Monophosphate-Dependent and -Independent Mechanisms," <i>Endocrinol.</i> 122:2981-2989 (June 1988)
	AM	2	Donahue, H.J., et al., "Differential Effects of Parathyroid Hormone and Its Analogues on Cytosolic Calcium Ion and cAMP Levels in Cultured Rat Osteoblast-like Cells," <i>J. Biol. Chem.</i> 263:13522-13527 (September 1988)
	AN	2	Dunlay, R., and Hruska, K., "PTH receptor coupling to phospholipase C is an alternate pathway of signal transduction in bone and kidney," <i>Am. J. Physiol.</i> 258:F223-F231 (February 1990)
	AO	2	Fujimori, A., et al., "Dissociation of Second Messenger Activation by Parathyroid Hormone Fragments in Osteosarcoma Cells," <i>Endocrinol.</i> 128:3032-3039 (June 1991)
	AP	2	Fujimori, A., et al., "Structure-Function Relationship of Parathyroid Hormone: Activation of Phospholipase-C, Protein Kinase-A and -C in Osteosarcoma Cells," <i>Endocrinol.</i> 130:29-36 (January 1992)

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SLW	AL	3	Gardella, T.J., et al., "Parathyroid Hormone (PTH)-PTH-related Peptide Hybrid Peptides Reveal Functional Interactions between the 1-14 and 15-34 Domains of the Ligand," <i>J. Biol. Chem.</i> 270:6584-6588 (1995)
	AM	3	Gombert, F.O. et al., "Alanine and D-Amino Acid Scan of Human Parathyroid Hormone," in <i>Proc. 14<sup>th</sup> Am. Peptide Symp.</i> , Kaumaya, P. and Hodges, R. eds., Mayflower Scientific Limited, Kingswinford, UK, pp. 661-662 (1996)
	AN	3	Guo, J., et al., "Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Density Modulates Activation of Phospholipase C and Phosphate Transport by PTH in LLC-PK1 Cells," <i>Endocrinol.</i> 136:3884-3891 (September 1995)
	AO	3	Hilliker, S., et al., "Truncation of the Amino Terminus of PTH Alters Its Anabolic Activity on Bone In Vivo," <i>Bone</i> 19:469-477 (November 1996)
	AP	3	Janulis, M., et al., "Structure-Function Requirements of Parathyroid Hormone for Stimulation of 1,25-Dihydroxyvitamin D <sub>3</sub> Production by Rat Renal Proximal Tubules," <i>Endocrinol.</i> 133:713-719 (August 1993)

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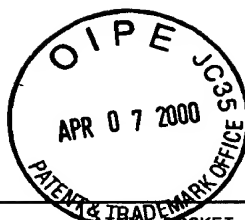
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SLW	AL	4	Jobert, A.-S., et al., "Parathyroid Hormone-Induced Calcium Release from Intracellular Stores in a Human Kidney Cell Line in the Absence of Stimulation of Cyclic Adenosine 3',5'-Monophosphate Production," <i>Endocrinol.</i> 138:5282-5292 (December 1997)
	AM	4	Jouishomme, H., et al., "The Protein Kinase-C Activation Domain of the Parathyroid Hormone," <i>Endocrinol.</i> 130:53-60 (January 1992)
	AN	4	Jouishomme, H., et al., "Further Definition of the Protein Kinase C Activation Domain of the Parathyroid Hormone," <i>J. Bone Min. Res.</i> 9:943-949 (June 1994)
	AO	4	Jüppner, H., et al., "A G Protein-Linked Receptor for Parathyroid Hormone and Parathyroid Hormone-Related Peptide," <i>Science</i> 254:1024-1026 (November 1991)
	AP	4	Kronenberg, H.M., et al., "The PTH/PTHrP Receptor: One Receptor for Two Ligands," in <i>Molecular Genetics of Endocrine Disorders</i> , Thakker, R.V., ed., Chapman & Hall Medical, publ., London, England, pp. 389-420 (1997)

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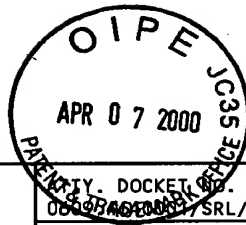
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SLW	AL	5	Neugebauer, W., et al., "Solution Structure and Adenylyl Cyclase Stimulating Activities of C-Terminal Truncated Human Parathyroid Hormone Analogues," <i>Biochem.</i> 34:8835-8842 (July 1995)
	AM	5	Pines, M., et al., "Inositol 1-,4-,5-Trisphosphate-Dependent Ca <sup>2+</sup> Signaling by the Recombinant Human PTH/PTHrP Receptor Stably Expressed in a Human Kidney Cell Line," <i>Bone</i> 18:381-389 (April 1996)
	AN	5	Reid, I.R., et al., "Parathyroid hormone acutely elevates intracellular calcium in osteoblastlike cells," <i>Am. J. Physiol.</i> 253:E45-E51 (July 1987)
	AO	5	Rixon, R.H., et al., "Parathyroid Hormone Fragments May Stimulate Bone Growth in Ovariectomized Rats by Activating Adenylyl Cyclase," <i>J. Bone Min. Res.</i> 9:1179-1189 (August 1994)
	AP	5	Schneider, H., et al., "Cloning and functional expression of a human parathyroid hormone receptor," <i>Eur. J. Pharmacol.</i> 246:149-155 (July 1993)

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SLW	AL	<u>6</u>	Schneider, H., et al., "A C-terminally truncated human parathyroid hormone receptor is functional and activates multiple G proteins," <i>FEBS Letts.</i> 351:281-285 (September 1994)
	AM	<u>6</u>	Segre, G.V., et al., "Characterization of Parathyroid Hormone Receptors in Canine Renal Cortical Plasma Membranes Using a Radioiodinated Sulfur-free Hormone Analogue," <i>J. Biol. Chem.</i> 254:6980-6986 (August 1979)
	AN	<u>6</u>	Seuwen, K., and Boddeke, H.G.W.M., "Heparin-insensitive calcium release from intracellular stores triggered by the recombinant human parathyroid hormone receptor," <i>Br. J. Pharmacol.</i> 114:1613-1620 (April 1995)
	AO	<u>6</u>	Siegfried, G., et al., "Parathyroid Hormone Stimulates Ecto-5'-Nucleotidase Activity in Renal Epithelial Cells: Role of Protein Kinase-C," <i>Endocrinol.</i> 136:1267-1275 (March 1995)
	AP	<u>6</u>	Takasu, H., et al., "Dual Signaling and Ligand Selectivity of the Human PTH/PTHrP Receptor," <i>J. Bone Min. Res.</i> 14:11-20 (January 1999)

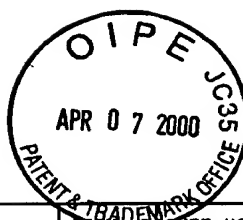
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	AM	Z	Tamura, T., et al., "Parathyroid Hormone 1-34, But Not 3-34 or 7-34, Transiently Translocates Protein Kinase C in Cultured Renal (OK) Cells," <i>Biochem. Biophys. Res. Comm.</i> 159:1352-1358 (March 1989)
	AN	Z	Tregear, G.W., et al., "Bovine Parathyroid Hormone: Minimum Chain Length of Synthetic Peptide Required for Biological Activity," <i>Endocrinol.</i> 93:1349-1353 (December 1973)
	AO	Z	Tregear, G.W., and Potts, Jr., J.T., "Synthetic Analogues of Residues 1-34 of Human Parathyroid Hormone: Influence of Residue Number 1 on Biological Potency <i>In Vitro</i> ," <i>Endocrine Res. Comm.</i> 2:561-570 (1975)
	AP	Z	Whitfield, J.F., and Morley, P., "Small bone-building fragments of parathyroid hormone: new therapeutic agents for osteoporosis," <i>Trends Pharmacol. Sci.</i> 16:382-386 (November 1995)

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